

**The U.S. Department of Energy CTBT Research and Development Program**

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As the lead U.S. agency for the design, production, and stewardship of the U.S. nuclear weapons stockpile, the U.S. Department of Energy (DOE) has gained a unique understanding of nuclear weapons and their effects. Because of this understanding, the agency has the mission to carry out research and development to support verification of the recently concluded Comprehensive Test Ban Treaty (CTBT). The DOE program is full-scope, addressing all environments and encompassing all the key monitoring technologies: space-based, seismic, infrasonic, hydroacoustic, radionuclide, and on-site inspection. The primary user of our technology is the U.S. National Data Center, but many of our results will be incorporated into the International Data Center by the Technical Secretariat of the CTBT Organization which will have responsibility for operating the International Monitoring System. The DOE is committed to carrying out this program as long as nuclear test monitoring is a key element of U.S. policy.

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